



FIGURE 1A

## Nucleotide and deduced amino acid sequence of human VR2

5 CACGAGGCCGACGCGCAGCTGGGAGGAAGACAGGACCCTTGACATCTCCATCTGCACAGA  
GGTCCTGGCTGGACCGAGCAGCCTCCTCCTCCTAGGATGACCTCACCTCCAGCTCTCCA  
M T S P S S S P

10 GTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGCGGACAGAGGA  
V F R L E T L D G G Q E D G S E A D R G

15 AAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCCAGGGCGAGGACCGG  
K L D F G S G L P P M E S Q F Q G E D R

20 AAATTCGCCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGGTGCCAGTCAG  
K F A P Q I R V N L N Y R K G T G A S Q

25 CCGGATCCAAACCGATTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCC  
P D P N R F D R D R L F N A V S R G V P

30 GAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAAGACCAGCAAGTACCTCACCGACTCG  
E D L A G L P E Y L S K T S K Y L T D S

35 GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGATGAAGGCTGTGCTGAACCTTAAG  
E Y T E G S T G K T C L M K A V L N L K

40 GACGGAGTCAATGCCTGCATTCTGCCACTGCTGCAGATCGACAGGGACTCTGGCAATCCT  
D G V N A C I L P L L Q I D R D S G N P

45 CAGCCCCCTGGTAAATGCCAGTGACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC  
Q P L V N A Q C T D D Y Y R G H S A L H

50 ATCGCCATTGAGAAGAGGAGTCTGCAGTGTGTGAAGCTCCTGGTGGAGAATGGGGCCAAT  
I A I E K R S L Q C V K L L V E N G A N

55 GTGCATGCCCCGGGCTGCGGCCGCTTCTTCCAGAAGGGCCAAGGGACTTGCTTTTATTTTC  
V H A R A C G R F F Q K G Q G T C F Y F

60 GGTGAGCTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGGTAAGCTACCTC  
G E L P L S L A A C T K Q W D V V S Y L

65 CTGGAGAACCCACACCAGCCCGCCAGCCTGCAGGCCACTGACTCCCAGGGCAACACAGTC  
L E N P H Q P A S L Q A T D S Q G N T V

70 CTGCATGCCCTAGTGATGATCTCGGACAACTCAGCTGAGAACATTGCACTGGTGACCAGC  
L H A L V M I S D N S A E N I A L V T S

75 ATGTATGATGGGCTCCTCCAAGCTGGGGCCCGCCTCTGCCCTACCGTGCAGCTTGAGGAC  
M Y D G L L Q A G A R L C P T V Q L E D

80 ATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCTGGCCGCCAAGGAGGGCAAGATCGAG  
I R N L Q D L T P L K L A A K E G K I E

85 ATTTTCAGGCACATCCTGCAGCGGGAGTTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC

FIGURE 1B

I F R H I L Q R E F S G L S H L S R K F  
ACCGAGTGGTGCTATGGGCCTGTCCGGGTGTCGCTGTATGACCTGGCTTCTGTGGACAGC  
T E W C Y G P V R V S L Y D L A S V D S  
5 TGTGAGGAGAACTCAGTGCTGGAGATCATTGCCTTTTCATTGCAAGAGCCCCGCACCGACAC  
C E E N S V L E I I A F H C K S P H R H  
CGAATGGTCGTTTTGGAGCCCCTGAACAACTGCTGCAGGCGAAATGGGATCTGCTCATC  
10 R M V V L E P L N K L L Q A K W D L L I  
CCCAAGTTCTTCTTAACTTCCTGTGTAATCTGATCTACATGTTTCATCTTCACCGCTGTT  
P K F F L N F L C N L I Y M F I F T A V  
15 GCCTACCATCAGCCTACCTGAAGAAGCAGGCCGCCCTCACCTGAAAGCGGAGGTTGGA  
A Y H Q P T L K K Q A A P H L K A E V G  
AACTCCATGCTGCTGACGGGCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTG  
20 N S M L L T G H I L I L L G G I Y L L V  
GGCCAGCTGTGGTACTTCTGGCGGCCACGTGTTTCATCTGGATCTCGTTCATAGACAGC  
G Q L W Y F W R R H V F I W I S F I D S  
TACTTTGAAATCCTCTTCTGTTCCAGGCCCTGCTCACAGTGGTGTCCAGGTGCTGTGT  
25 Y F E I L F L F Q A L L T V V S Q V L C  
TTCCTGGCCATCGAGTGGTACCTGCCCCTGCTTGTGTCTGCGCTGGTGTGGGCTGGCTG  
F L A I E W Y L P L L V S A L V L G W L  
30 AACCTGCTTTACTATACACGTGGCTTCCAGCACACAGGCATCTACAGTGTCATGATCCAG  
N L L Y Y T R G F Q H T G I Y S V M I Q  
AAGGTCATCCTGCGGGACCTGCTGCGCTTCTTCTGATCTACTTAGTCTTCTTTTCGGC  
35 K V I L R D L L R F L L I Y L V F L F G  
TTCGCTGTAGCCCTGGTGAGCCTGAGCCAGGAGGCTTGGCGCCCCGAAGCTCCTACAGGC  
F A V A L V S L S Q E A W R P E A P T G  
40 CCCAATGCCACAGAGTCAGTGACGCCCATGGAGGGACAGGAGGACGAGGGCAACGGGGCC  
P N A T E S V Q P M E G Q E D E G N G A  
CAGTACAGGGGTATCCTGGAAGCCTCCTTGGAGCTCTTCAAATTCACCATCGGCATGGGC  
Q Y R G I L E A S L E L F K F T I G M G  
45 GAGCTGGCCTTCCAGGAGCAGCTGCACTTCCGCGGCATGGTGCTGCTGCTGCTGGCC  
E L A F Q E Q L H F R G M V L L L L L A  
TACGTGCTGCTCACCTACATCCTGCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACC  
50 Y V L L T Y I L L L N M L I A L M S E T  
GTCAACAGTGTGCGCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTC  
V N S V A T D S W S I W K L Q K A I S V  
CTGGAGATGGAGAATGGCTATTGGTGGTGCAGGAAGAAGCAGCGGGCAGGTGTGATGCTG  
55 L E M E N G Y W W C R K K Q R A G V M L  
ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGGTGCTTCAGGGTGGAGGAG  
T V G T K P D G S P D E R W C F R V E E

FIGURE 1C

GTGAACTGGGCTTCATGGGAGCAGACGCTGCCTACGCTGTGTGAGGACCGTCAGGGGCA  
V N W A S W E Q T L P T L C E D P S G A

5 GGTGTCCCTCGAACTCTCGAGAACCCTGTCCTGGCTTCCCCTCCCAAGGAGGATGAGGAT  
G V P R T L E N P V L A S P P K E D E D

GGTGCCTCTGAGGAAACTATGTGCCCCGTCCAGCTCCTCCAGTCCAACTGATGGCCCAGA  
G A S E E N Y V P V Q L L Q S N \*

10 TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTCCAACCACATCTGCTGGCTCTGG  
GGTCCCAGT